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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------|------------------------------------|----------------------|---------------------|------------------|
| 10/722,103 | 11/24/2003 | PanSoo Kim | 51876P423 | 6383 |
| 0.,,, | 7590 01/23/2007 KOLOFF TAYLOR & | | EXAM | INER |
| 12400 WILSHI | IRE BOULEVARD | | LU, | JIA |
| SEVENTH FLOS ANGELE | OOR S, CA 90025-1030 | | ART UNIT | PAPER NUMBER |
| | | | 2611 | |
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| SHORTENED STATUTOR | Y PERIOD OF RESPONSE | MAIL DATE | DELIVER | Y MODE |
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| The Period for Rep A SHORTE WHICHEVE - Extensions of after SIX (6) M - If NO period for Any reply receive earned patent Status 1) Responsition of Any Since closed 2a) This are also closed Disposition of Any Claim 4a) Of Six Claim 6) Claim 7) Claim 8) Claim 7) Claim 8) Claim 7) The sponsition Pa | NED STATUTORY PERIOD FOR REPLER IS LONGER, FROM THE MAILING Ditime may be available under the provisions of 37 CFR 1.4 IONTHS from the mailing date of this communication, or reply is specified above, the maximum statutory period by within the set or extended period for reply will, by statutived by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b). Consider to communication(s) filed on 24 Note that the provision is FINAL. This application is in condition for allowed the in accordance with the practice under the provision of the provision is the practice under the provision of the provision is the practice under the provision of the practice under the provision of the practice under the provision of the practice under the practice under the provision of the practice under the provision of the practice under the pract | LY IS SET TO EXPIRE 3 NO DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A right date of this communication, even in the second se | MONTH(S) OR THIRTY (30) DAYS, IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). if timely filed, may reduce any |
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| Application Pa 9)∐ The sp | | | |
| 9)∏ The sp | (s) are subject to restriction and/o | or election requirement. | • |
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| 10\⊠ Tho do | pecification is objected to by the Examine | | _ |
| • | awing(s) filed on <u>24 November 2003</u> is/a | | |
| | ant may not request that any objection to the | | |
| • | cement drawing sheet(s) including the correct ath or declaration is objected to by the E | • | |
| TT) The oa | an or declaration is objected to by the E | xammer. Note the attache | ed Office Action of form F10-152. |
| Priority under | 35 U.S.C. § 119 | | |
| 12)⊠ Ackno a)⊠ All | wledgment is made of a claim for foreigr b) Some * c) None of: | n priority under 35 U.S.C. | § 119(a)-(d) or (f). |
| <i>,</i> — | Certified copies of the priority documen | its have been received | |
| - | Certified copies of the priority documen | | Application No. |
| | Copies of the certified copies of the prior | | |
| _ | application from the International Burea | • | • |
| * See the | attached detailed Office action for a list | t of the certified copies no | ot received. |

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

6) Other: _

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 3, 8 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Jung Sig Jun in US patent 6,583,822.
 - a. Regarding claim 3, '822 discloses a timing recovery device comprising: A/D conversion means for converting successively inputted analogue signals to digital signals (figure 5, element 23); timing error detection means for calculating an timing error between an input timing of the digital signal successively inputted from the A/D conversion means and a sampling timing of the A/D conversion means and detecting sign change of the digital signals (figure 5, element 61); timing error output control means for outputting the timing error calculated from the timing error detection means and controlling the timing error output value (figure 5, element 70); filtering means for eliminating a noise of the timing error value controlled by the timing error output control means and calculating a

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mean value of errors (figure 5, element 62); and timing error compensation means for compensating the timing error of the sampling timing of the A/D conversion means by shifting the sampling timing corresponding to the calculated error value from the timing error detection means (figure 5, element 63).

- b. Claim 8 reads on the limitations of claim 3.
- c. Claim 11 reads on the limitations of claim 3; further, '822 describes the riming recovery method to be used in a digital television receiver, and it is inherent that such a method may be stored in the receiver.

Allowable Subject Matter

- 2. Claims 1, 2 are allowed.
- 3. Claims 4-7, 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jia Lu whose telephone number is 571-272-6042. The examiner can normally be reached on 8:30-4:30, M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jia Lu Examiner

CHIEH M. FAN
SUPERVISORY PATENT EXAMINER